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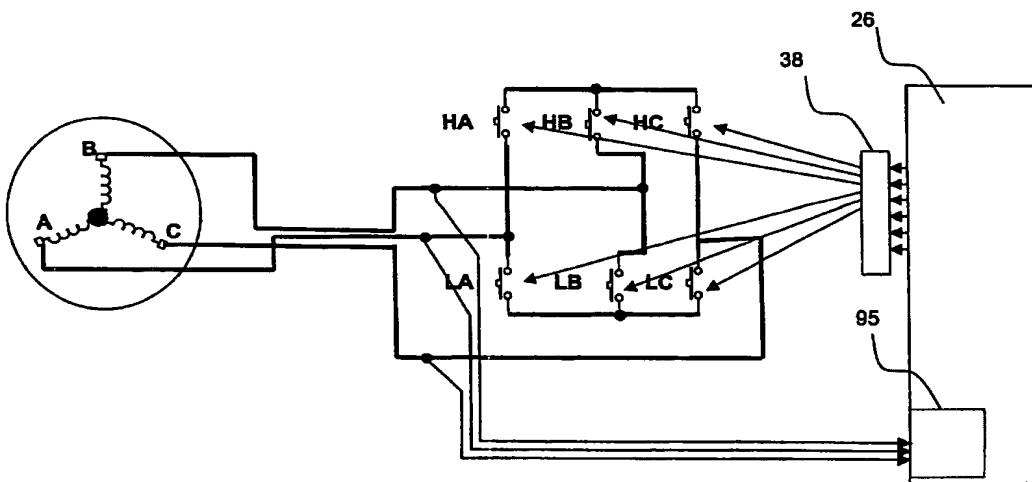
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(54) Title: AN AIR ASSISTANCE APPARATUS PROVIDING FAST RISE AND FALL OF PRESSURE WITHIN ONE PATIENT'S BREATH



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(57) Abstract: The invention concerns an apparatus delivering air to this patient through a mask, comprising an air blower (33) wherein the impeller (5) is rotated by an electro motor comprising a rotor (3) and a stator (8), said stator having at least three sectors (8a, 8b and 8c), the rotation of the rotor being enabled by changes of the polarity of the sectors, each sectors polarity configuration constituting one step of the rotor's rotation, said apparatus comprising a driving unit (36) changing the sectors polarity when the rotor is at its optimal position, so that the efficiency of the electro motor enables the blower to have fast accelerations and decelerations within one patient's breath step, said breath step consisting of one inspiration and one expiration.

INTERNATIONAL SEARCH REPORT

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PCT/IB 03/01392A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61M16/00 H02P7/63

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 02 26305 A (MALLINCKRODT INC) 4 April 2002 (2002-04-04) page 9, line 18 -page 14, line 7 page 16, line 19 - line 27 page 30, line 6 - line 15 page 31, line 6 - line 24 ----	1, 9, 11, 12, 15, 17, 20, 23
X	US 2002/000228 A1 (SCHOEB RETO) 3 January 2002 (2002-01-03) paragraph '0026! paragraph '0028! paragraph '0032! paragraph '0038! paragraph '0040! paragraph '0043! ----	1, 11, 12, 15, 17, 20, 23
Y	----- -/-	2

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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